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Nauka i Zhizn', No 11, 1950, p 22.

RESEARCH WORK AT THE LENINGRAD POLYTECHNICAL INSTITUTE

Scientists at the Leningrad Polytechnical Institute imeni Kalinin, together with all scientists in the USSR, are working enthusiastically on the complex problems connected with the immense building projects of the Stalin epoch.

An enormous amount of work has been done by the chairs of the engineering construction, electromechanics, electric machine building, and hydromelioration (irrigation and soil improvement) faculties. The chair of hydraulics under Professor Chertousov has begun research on models of individual parts of the Volga hydroelectric power stations. Professor Belov's chair has been trying to find the best methods of building foundations and substructures for future stations. For many years the chair of hydraulic machines, under the direction of Docent Gur'yev, has been studying hydraulic turbine runners in collaboration with the Leningrad Plant imeni Stalin. Their studies are now being utilized in solving the more complicated problems relating to very high-power hydraulic turbines with adjustable blades. The chair is also developing new heavy-duty propeller pumps which will be used extensively in the water-power and irrigation projects now under construction.

The chair of high-voltage engineering is working on extremely important problems. Professor Gorev, Stalin Prize Laureate, and Professor Zalesskiy, in collaboration with a collective group of the Leningrad "Elektroapparat" Plant, are designing equipment for high-voltage circuits, e.g., oil-circuit breakers, disconnecting switches, lightning arresters, etc. They are also investigating methods for power transmission over very long distances. This work is especially important in planning and building the Kuybyshev-Moscow and Stalingrad-Moscow power-transmission lines.

In the friction and lubrication laboratory, Professor Zaytsev is examining problems connected with the construction of high-power generator bearings. A special machine for this purpose has been installed in the laboratory.

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